



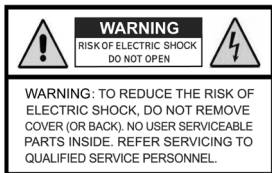
# IR Varifocal IP66 Weatherproof Cameras

Products: CFC6067VF, CFC6067VF2



Please read this manual before using your camera, and always follow the instructions for safety and proper use. Save this manual for future reference.

CFC6067VF\_CM



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Security Cameras Direct

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## WARNINGS & CAUTIONS



*Do not use the camera if fumes, smoke or a strange odor is emitted from the unit, or if it seems to not function correctly. Disconnect the power source immediately and consult your supplier.*



*Do not adjust or modify the camera's internal circuits or power supply modules. No user serviceable parts exist inside. For internal settings and repairs, consult your supplier.*



*Always follow the instructions in the installation guide when applying power. Fire and equipment damage can occur if power is applied incorrectly.*



*To prevent damage do not drop the camera or subject it to strong shock or vibration.*



*Never point the camera toward the sun. Use caution when operating the camera in the vicinity of spot lights or other bright lights and light reflecting objects.*

## WARNINGS & CAUTIONS



### CAUTION

*Do not install the camera or route video cables near a TV, radio transmitter, magnet, electric motor, transformer, or audio speaker. Magnetic fields generated by these devices may distort the video image.*



### CAUTION

*Use the camera only in areas where the temperature and humidity are within the recommended specifications.*

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### SECTION 1      **Features**

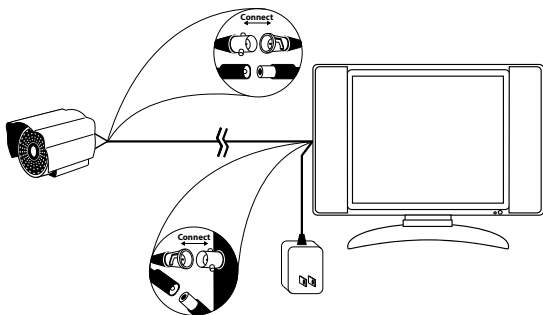
The CFC6067VF and CFC6067VF2 cameras are weatherproof, highly durable, IR color day/night CCTV cameras. These cameras include:

- Easy-to-adjust varifocal lens with manual zoom
- Built-in IR LEDs reaching 164' (CFC6067VF2) or 98' (CFC6067VF)
- Heavy duty cable concealing bracket
- IP66-rated weatherproof case

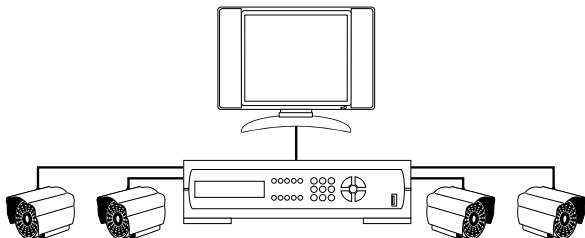
#### 1.1 Camera components



## SECTION 1: FEATURES



**Single camera system with monitor**



**Multiple camera system with DVR and monitor**

## **SECTION 2      Installation**

### **2.1    What's in the box**

The camera package contains:

- Camera assembly
- Mounting screws and wall inserts (4 each)
- Hex key
- Instruction manual

### **2.2    What you need**

To install the camera, you will need:

- Tools to attach the mounting bracket to the mounting surface
- Video and power extension cable
- 12 V DC power adapter or power source

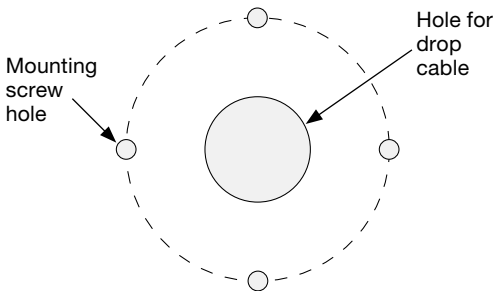
### **2.3    Installing the camera**

1. Using the camera bracket mounting plate as a template, mark the location of the holes for the mounting screws on the mounting surface. On a vertical surface, ensure that the cable guide in the mounting plate is at the bottom.



## SECTION 2: INSTALLATION

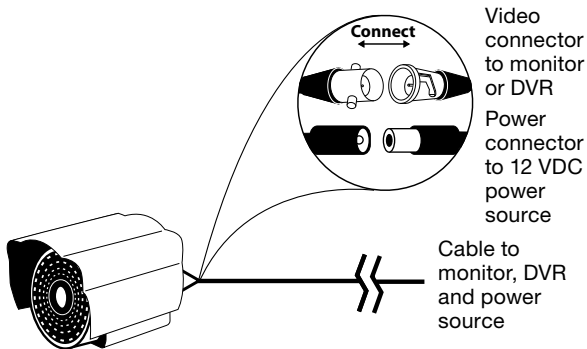
2. Drill holes into the mounting surface for the mounting screws, wall inserts, or other attachment hardware as needed.
3. If you are routing the drop cable through the mounting surface, drill a  $\frac{3}{4}$ " hole centered between the mounting screw holes.



4. Insert wall inserts into the mounting screw holes, if needed.
5. If you drilled a hole for the camera drop cable, route the drop cable through the hole and align the camera mounting bracket with the mounting screw holes. On a vertical surface, ensure that the cable guide is at the bottom.
6. Attach the mounting bracket to the mounting surface with the attachment hardware.

## SECTION 2: INSTALLATION

7. Connect the camera drop cable connectors to the video and power extension cable routed to the monitor or DVR, and the power source.



### Cable attachment

#### NOTE

*Connectors on the power extension cable are different at each end! Cable connections are not weatherproof.*

8. Apply power to the camera.
9. Verify that video from the camera can be seen on a monitor.

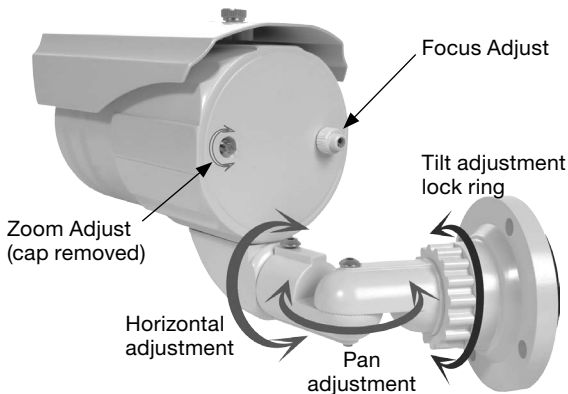
### SECTION 3

## Aiming the Camera

1. Use the hex key provided to loosen the pan adjustment set screw, and turn the tilt adjustment lock ring counter-clockwise until the camera bracket can be rotated within the mounting base.

### NOTE

*During this procedure, only loosen the adjustment screws – do not remove them.*



### Camera aiming

### **SECTION 3: AIMING THE CAMERA**

3. While observing video from the camera, adjust the mounting bracket as necessary to aim the camera at your surveillance target.
4. Tighten the pan adjustment set screw and tighten the tilt adjustment lock ring to lock the camera in place.
5. Loosen the horizontal adjustment set screw. Correct the horizontal alignment of the picture, and then tighten the set screw.
6. Remove the caps from the focus and zoom adjustment screws on the back of the camera body. Note that a screwdriver for adjusting the focus and zoom is molded into the outer end of the cap.
7. While observing video from the camera, adjust the zoom and focus as necessary.
8. Reinstall the focus and zoom caps on the back of the camera body.

**SECTION 4****Cleaning**

Clean the camera lens and IR lamp shield with an approved glass cleaning solution and a lint free cloth.

- Remove all foreign particles, such as plastic or rubber materials, attached to the camera housing. These may cause damage to the surface over time.
- Dust can be removed from the unit by wiping it with a soft damp cloth. To remove stains, gently rub the surface with a soft cloth moistened with a mild detergent solution, then rinse and dry it with a soft cloth.



*Do not use benzene, thinner or other chemical products on the camera assembly; these may dissolve the paint and promote damage of the surfaces. Before using any chemical product, read the instructions carefully.*

## SECTION 5: SPECIFICATIONS

### SECTION 5

# Specifications

**Table 1. Specifications**

Model	CFC6067VF	CFC6067VF2
Image Sensor	1/4" Sharp CCD	1/3" Sony CCD
Resolution	420 TV Lines	540 TV Lines
Lux Rating	0.0 Lux @ F2.0 IR on	
Pixels	811(H) x 508 (V) NTSC	
Clock Frequency	NTSC: 19.0699 MHz	
Video output	1 Vp-p, 75Ω	
Automatic Gain Control (AGC)	Auto	
Scanning system	2:1 Interlace	
Synchronous system	Internal, negative sync.	
Gama correction	0.45	
Automatic Electronic Shutter (AES)	1/60 ~ 1/100,000 sec.	
IR LED	42 LEDs @ 840 nm	35 LEDs @ 840 nm
IR Range	98' IR Range	164' IR Range
IR Status	< 10 Lux by CDS	
Lens	4-9 mm Manual Lens	

## SECTION 5: SPECIFICATIONS

Model	CFC6067VF	CFC6067VF2
Sync	Internal	
IR Control	CDS Auto Sensor Control	
S/N ratio	> 48 dB (AGC off)	
Operating temp	14°F ~ 122°F (-10°C ~ +50°C), RH 95% max	
Weatherproof Rating	IP66	
Power	12 V DC (±10%) @ 550mA	12 V DC (±10%) @ 700mA
Size	5.5" (W) x 3.3" (W) x 3.1" (D)	10.2" (W) x 6.3" (H) x 4.1" (D)
Weight	2.86 lbs.	3.30 lbs.

## **SECTION 6**      **Troubleshooting**

Before sending the camera for repair, first, make sure that the camera is installed correctly, and then follow the suggestions listed below. If it still does not perform adequately, please consult your supplier or contact Security Cameras Direct at 800.316.6027.

1.    No picture on the monitor screen:
  - a.    Check that all connected devices are powered on.
  - b.    Confirm that the voltage is correct.
  - c.    Confirm that the power supply provides enough current to power the camera.
  - d.    Check that all video cables are correctly connected.
2.    Video has flowing interference ripples:
  - a.    Check the power supply for excessive AC noise, or replace the power supply.
  - b.    Ensure that all video connections are tight. Check the video cable for damaged connectors and breaks in the shielding layer.



## SECTION 6: TROUBLESHOOTING

- c. Check the monitor display for ripple on other video channels.
  - d. Check cable routing for proximity to high electrical or magnetic fields.
3. The picture is not clear.
- a. Check the camera zoom and focus adjustments.
  - b. Check that your monitor is correctly adjusted.
  - c. Confirm that the glass in front of the lens is clean.

If there is dust, dirt or fingerprints on the glass, the image quality will be affected. To clean the glass use a soft, dry and non-abrasive cloth or a commercially available lens cleaning set.

4. The picture has interference.
- a. The camera or cables to the camera may be close to a high voltage source, such as a power generator.
  - b. The BNC cable is not terminated properly.
  - c. The video cables are not connected properly.

## SECTION 6: TROUBLESHOOTING

5. The camera doesn't operate at night.
  - a. Your cable run may be too long and you are experiencing a drop in voltage.



*This camera is a precision instrument and when treated with care, will provide years of satisfactory performance. If a problem does occur, do not open the camera to make repairs. Servicing should always be referred to your supplier.*